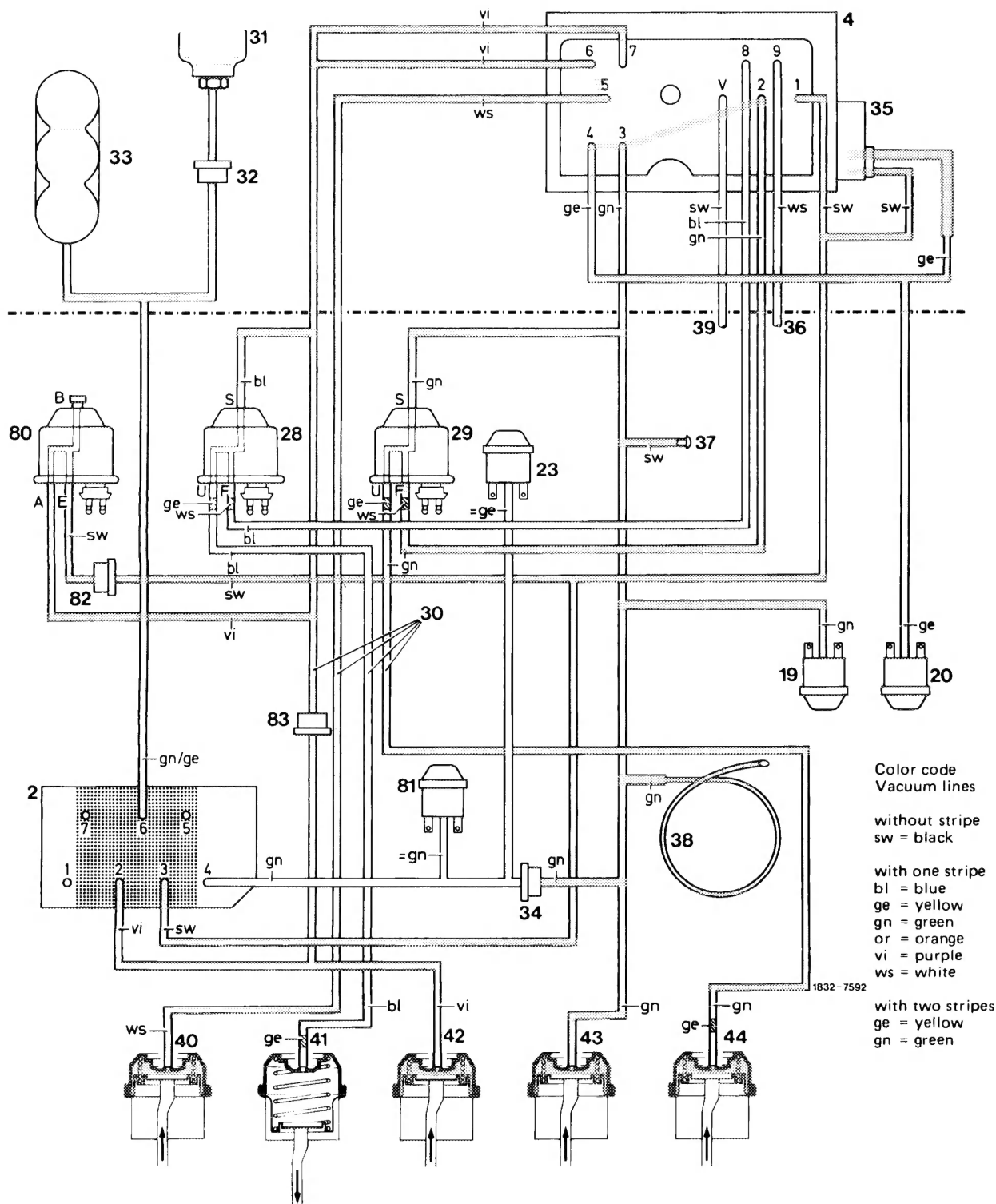


Function diagram 1 Pushbutton switch at "OFF", "ON/OFF" switch refrigerant compressor at "ON"

- |   |  |  |
|---|--|--|
| 2 Pushbutton switch   | 32 Check valve                                       | 42 Vacuum element for defroster jets (flaps "closed")  |
| 4 Regulating valve  | 33 Vacuum reservoir                                  | 43 Vacuum element for main air flap (flap "closed")  |
| 19 Vacuum switch (main switch, green)                               | 34 Check valve                                       | 44 Vacuum element for fresh air-recirculating air flap (flap in position "recirculated air") |
| 20 Vacuum switch (refrigerant compressor, yellow)                   | 35 Temperature switch                                | 80 Switchover valve "BI-LEVEL"   |
| 23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only)    | 36 Vent line for legroom flaps                       | 81 Vacuum switch (at "BI-LEVEL" only)  |
| 28 Switchover valve (legroom flaps)                                 | 37 Vacuum connection for tester                      | 82 Check valve   |
| 29 Switchover valve (fresh air-recirculating air changeover switch) | 38 Specified leak point                              | 83 Check valve   |
| 30 Vacuum lines   | 39 Vent line for regulating valve                    |  |
| 31 Vacuum connection at intake pipe                                 | 40 Vacuum element for center jets (flap "open")      |  |
|   | 41 Vacuum element for legroom flaps (flaps "closed") |  |

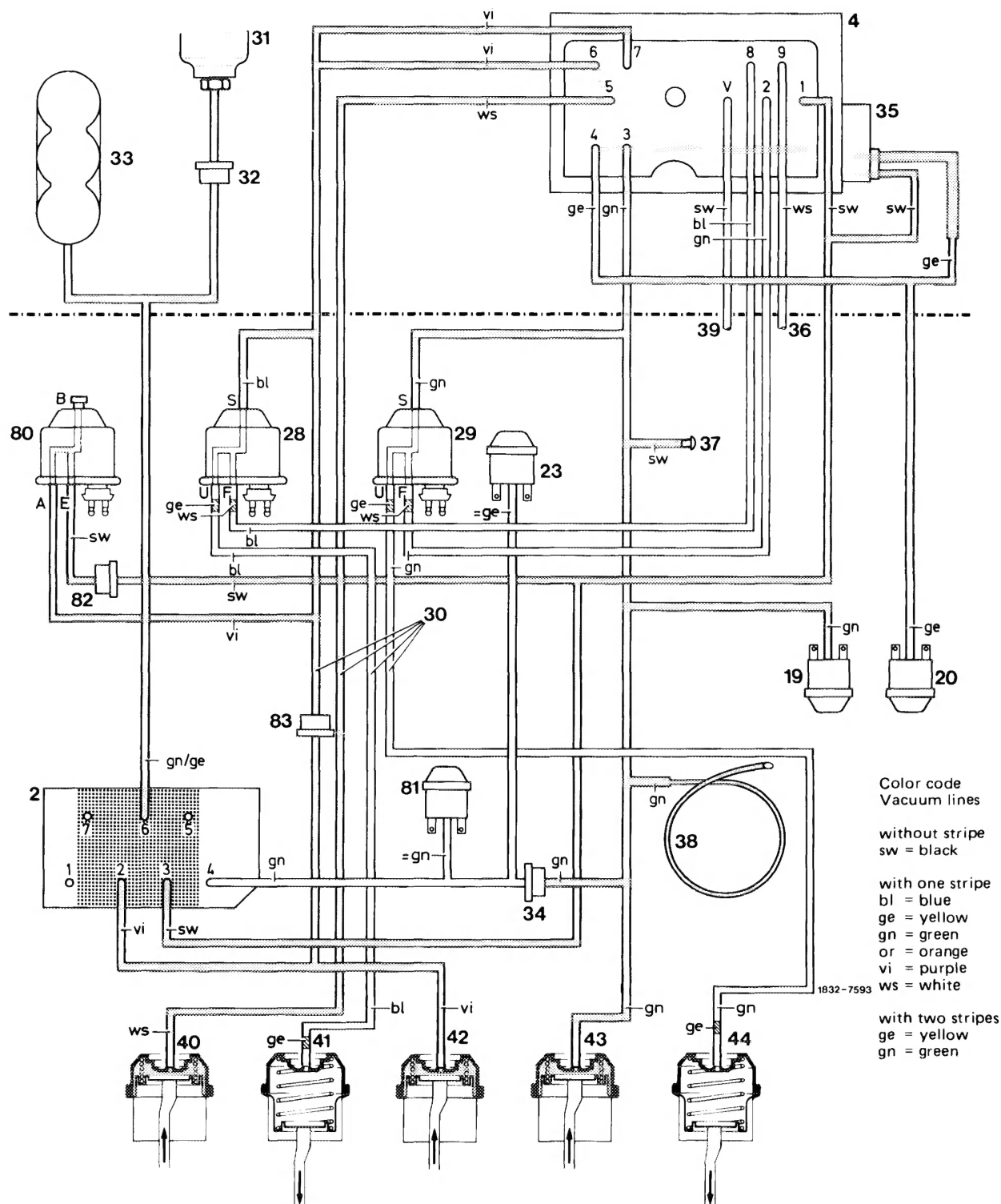




Function diagram 2

Pushbutton switch at "AUTO-LO" or "AUTO-HI", "ON/OFF" switch refrigerant compressor at "ON", regulating valve in position "cooling" (fresh air), coolant temperature  $> 40^{\circ}\text{C}$  ( $> 104^{\circ}\text{F}$ )

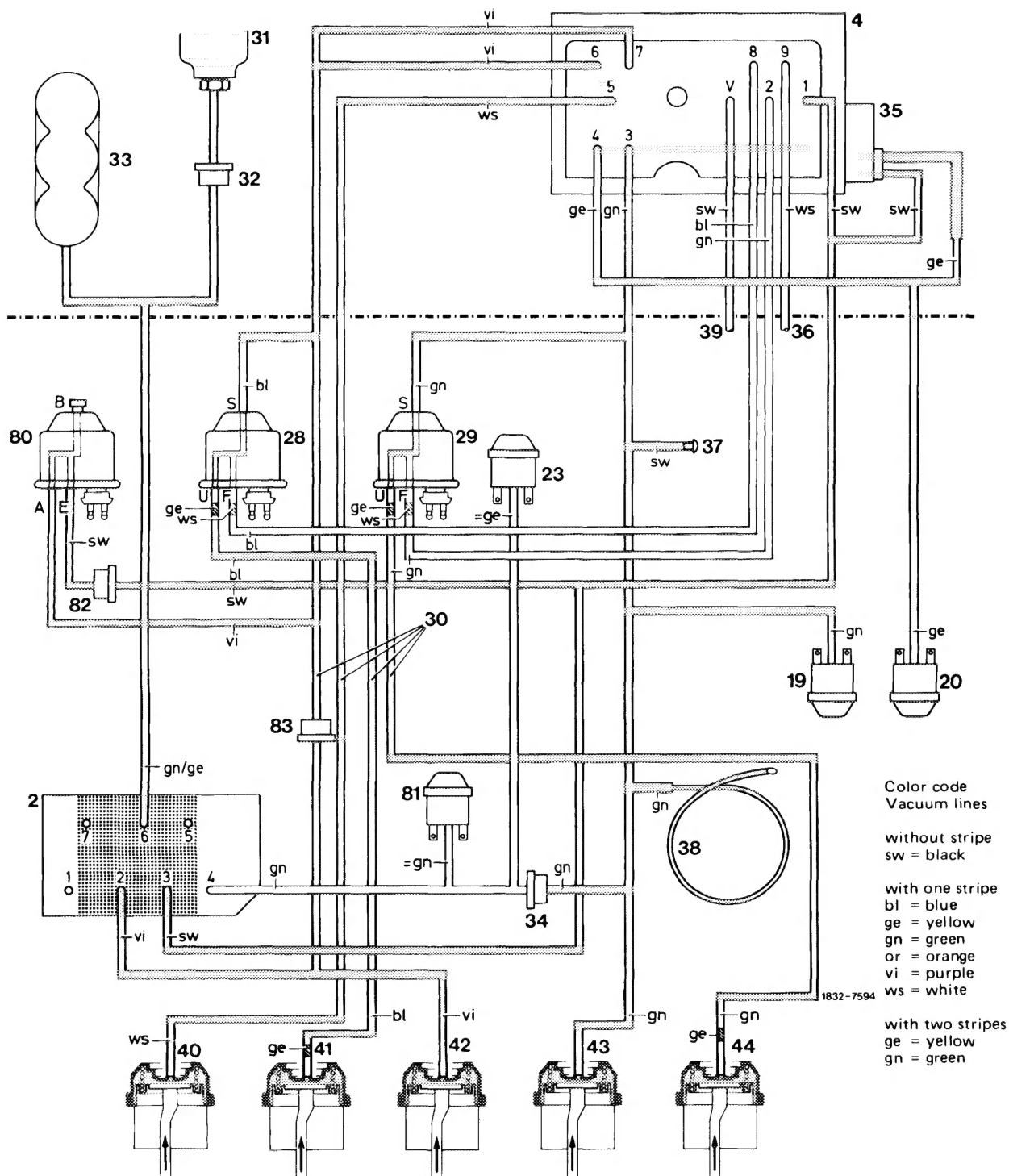
- |   |  |   |
|---|--|---|
| 2 Pushbutton switch   | 32 Check valve                                       | 42 Vacuum element for defroster jets (flaps "closed" with leak air portion)           |
| 4 Regulating valve  | 33 Vacuum reservoir                                  | 43 Vacuum element for main air flap (flap "open")                                     |
| 19 Vacuum switch (main switch, green)                               | 34 Check valve                                       | 44 Vacuum element for fresh air-recirculating air flap (flap in position "fresh air") |
| 20 Vacuum switch (refrigerant compressor, yellow)                   | 35 Temperature switch                                | 80 Switchover valve "BI-LEVEL"  |
| 23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only)    | 36 Vent line for legroom flaps                       | 81 Vacuum switch (at "BI-LEVEL" only)   |
| 28 Switchover valve (legroom flaps)                                 | 37 Vacuum connection for tester                      | 82 Check valve  |
| 29 Switchover valve (fresh air-recirculating air changeover switch) | 38 Specified leak point                              | 83 Check valve  |
| 30 Vacuum lines   | 39 Vent line for regulating valve                    |   |
| 31 Vacuum connection at intake pipe                                 | 40 Vacuum element for center jets (flap "open")      |   |
|   | 41 Vacuum element for legroom flaps (flaps "closed") |   |



Function diagram 3

Pushbutton switch at "AUTO-LO" or "AUTO-HI", "ON/OFF" switch refrigerant compressor at "ON", regulating valve in position max. "cooling" (recirculated air), coolant temperature  $> 40^{\circ}\text{C}$  ( $> 104^{\circ}\text{F}$ )

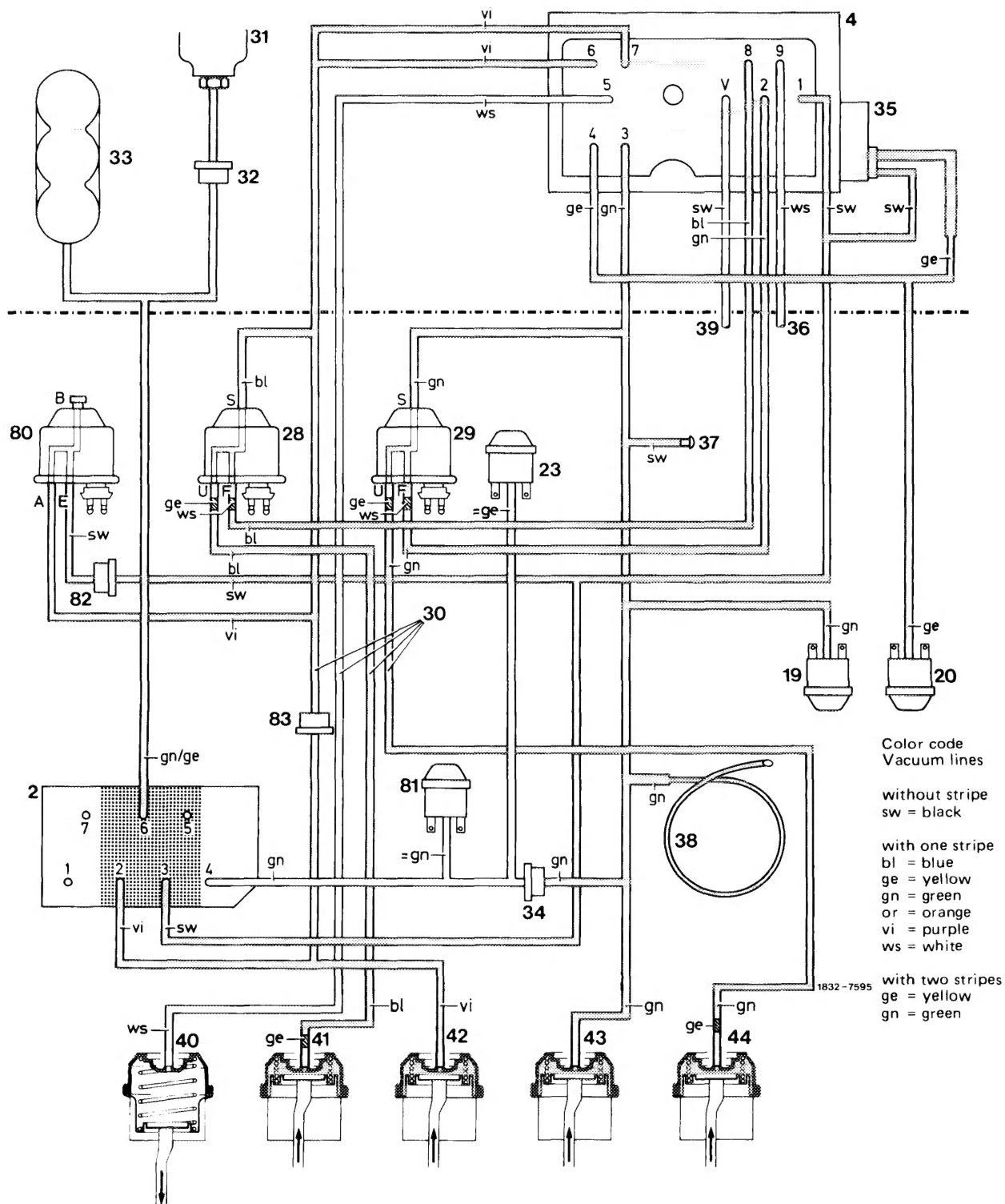
- |   |  |  |
|---|--|--|
| 2 Pushbutton switch   | 32 Check valve                                       | 42 Vacuum element for defroster jets (flaps "closed" with leak air portion)  |
| 4 Regulating valve  | 33 Vacuum reservoir                                  | 43 Vacuum element for main air flap (flap "open")  |
| 19 Vacuum switch (main switch, green)                               | 34 Check valve                                       | 44 Vacuum element for fresh air-recirculated air flap, (flap in position "recirculated air", 20 % fresh air/80 % recirculated air) |
| 20 Vacuum switch (refrigerant compressor, yellow)                   | 35 Temperature switch                                | 80 Switchover valve "BI-LEVEL"   |
| 23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only)    | 36 Vent line for legroom flaps                       | 81 Vacuum switch (at "BI-LEVEL" only)  |
| 28 Switchover valve (legroom flaps)                                 | 37 Vacuum connection for tester                      | 82 Check valve   |
| 29 Switchover valve (fresh air-recirculating air changeover switch) | 38 Specified leak point                              | 83 Check valve   |
| 30 Vacuum lines   | 39 Vent line for regulating valve                    |  |
| 31 Vacuum connection at intake pipe                                 | 40 Vacuum element for center jets (flap "open")      |  |
|   | 41 Vacuum element for legroom flaps (flaps "closed") |  |



Function diagram 4

Pushbutton switch at "AUTO-LO" or "AUTO-HI", "ON/OFF" switch refrigerant compressor at "OFF", regulating valve in position max. "cooling" (fresh air), coolant temperature  $> 40^{\circ}\text{C}$  ( $> 104^{\circ}\text{F}$ )

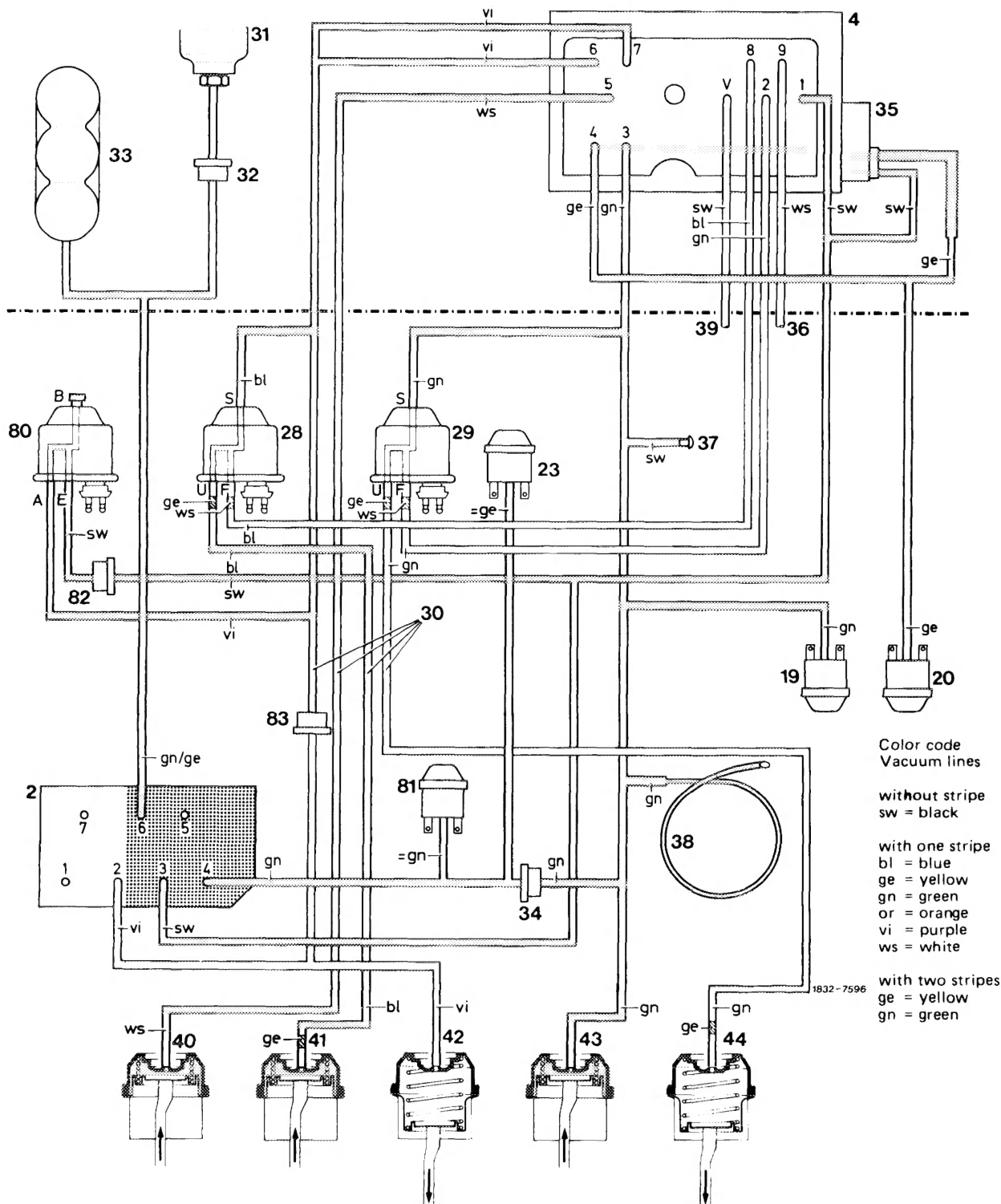
- |   |  |  |
|---|--|--|
| 2 Pushbutton switch   | 32 Check valve                                     | 42 Vacuum element for defroster jets (flaps "closed" with leak air portion)          |
| 4 Regulating valve  | 33 Vacuum reservoir                                | 43 Vacuum element for main air flap (flap "open")                                    |
| 19 Vacuum switch (main switch, green)                               | 34 Check valve                                     | 44 Vacuum element for fresh air-recirculated air flap (flap in position "fresh air") |
| 20 Vacuum switch (refrigerant compressor, yellow)                   | 35 Temperature switch                              | 80 Switchover valve "BI-LEVEL"   |
| 23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only)    | 36 Vent line for legroom flaps                     | 81 Vacuum switch (at "BI-LEVEL" only)  |
| 28 Switchover valve (legroom flaps)                                 | 37 Vacuum connection for tester                    | 82 Check valve   |
| 29 Switchover valve (fresh air-recirculating air changeover switch) | 38 Specified leak point                            | 83 Check valve   |
| 30 Vacuum lines   | 39 Vent line for regulating valve                  |  |
| 31 Vacuum connection at intake pipe                                 | 40 Vacuum element for center jets (flap "open")    |  |
|   | 41 Vacuum element for legroom flaps (flaps "open") |  |



Function diagram 5

Pushbutton switch at "AUTO-LO" or "AUTO-HI", "ON/OFF" switch refrigerant compressor at "ON", regulating valve in position "heating", coolant temperature  $> 40^{\circ}\text{C}$  ( $> 104^{\circ}\text{F}$ )

- |   |  |  |
|---|--|--|
| 2 Pushbutton switch   | 32 Check valve                                     | 42 Vacuum element for defroster jets (flaps "closed" with leak air portion)          |
| 4 Regulating valve  | 33 Vacuum reservoir                                | 43 Vacuum element for main air flap (flap "open")                                    |
| 19 Vacuum switch (main switch, green)                               | 34 Check valve                                     | 44 Vacuum element for fresh air-recirculated air flap (flap in position "fresh air") |
| 20 Vacuum switch (refrigerant compressor, yellow)                   | 35 Temperature switch                              | 80 Switchover valve "BI-LEVEL"   |
| 23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only)    | 36 Vent line for legroom flaps                     | 81 Vacuum switch (at "BI-LEVEL" only)  |
| 28 Switchover valve (legroom flaps)                                 | 37 Vacuum connection for tester                    | 82 Check valve   |
| 29 Switchover valve (fresh air-recirculating air changeover switch) | 38 Specified leak point                            | 83 Check valve   |
| 30 Vacuum lines   | 39 Vent line for regulating valve                  |  |
| 31 Vacuum connection at intake pipe                                 | 40 Vacuum element for center jets (flap "closed")  |  |
|   | 41 Vacuum element for legroom flaps (flaps "open") |  |

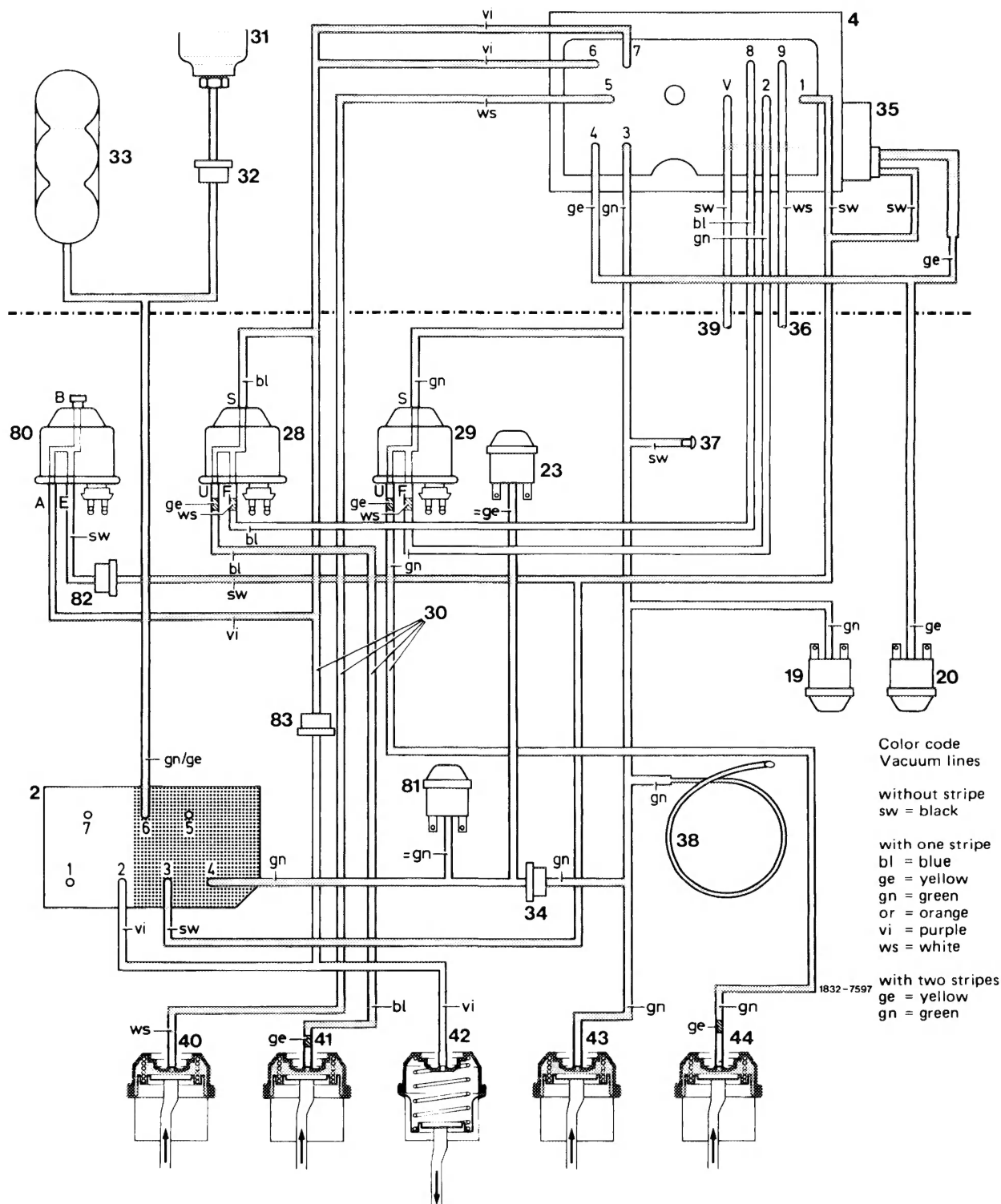


Function diagram 6

Pushbutton switch at "BI-LEVEL", "ON/OFF" switch refrigerant compressor at "ON", regulating valve in position max. "cooling" (recirculated air), coolant temperature  $> 40^{\circ}\text{C}$  ( $> 104^{\circ}\text{F}$ ), (temperature switch [35] without influence)

- |   |  |  |
|---|--|--|
| 2 Pushbutton switch   | 32 Check valve                                     | 42 Vacuum element for defroster jets (flaps "open" with leak air portion)  |
| 4 Regulating valve  | 33 Vacuum reservoir                                | 43 Vacuum element for main air flap (flap "open")  |
| 19 Vacuum switch (main switch, green)                               | 34 Check valve                                     | 44 Vacuum element for fresh air-recirculated air flap (flap in position recirculated air 20 % fresh air/80 % recirculated air) |
| 20 Vacuum switch (refrigerant compressor, yellow)                   | 35 Temperature switch                              | 80 Switchover valve "BI-LEVEL"   |
| 23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only)    | 36 Vent line for legroom flaps                     | 81 Vacuum switch (at "BI-LEVEL" only)  |
| 28 Switchover valve (legroom flaps)                                 | 37 Vacuum connection for tester                    | 82 Check valve   |
| 29 Switchover valve (fresh air-recirculating air changeover switch) | 38 Specified leak point                            | 83 Check valve   |
| 30 Vacuum lines   | 39 Vent line for regulating valve                  |  |
| 31 Vacuum connection at intake pipe                                 | 40 Vacuum element for center jets (flap "open")    |  |
|   | 41 Vacuum element for legroom flaps (flaps "open") |  |



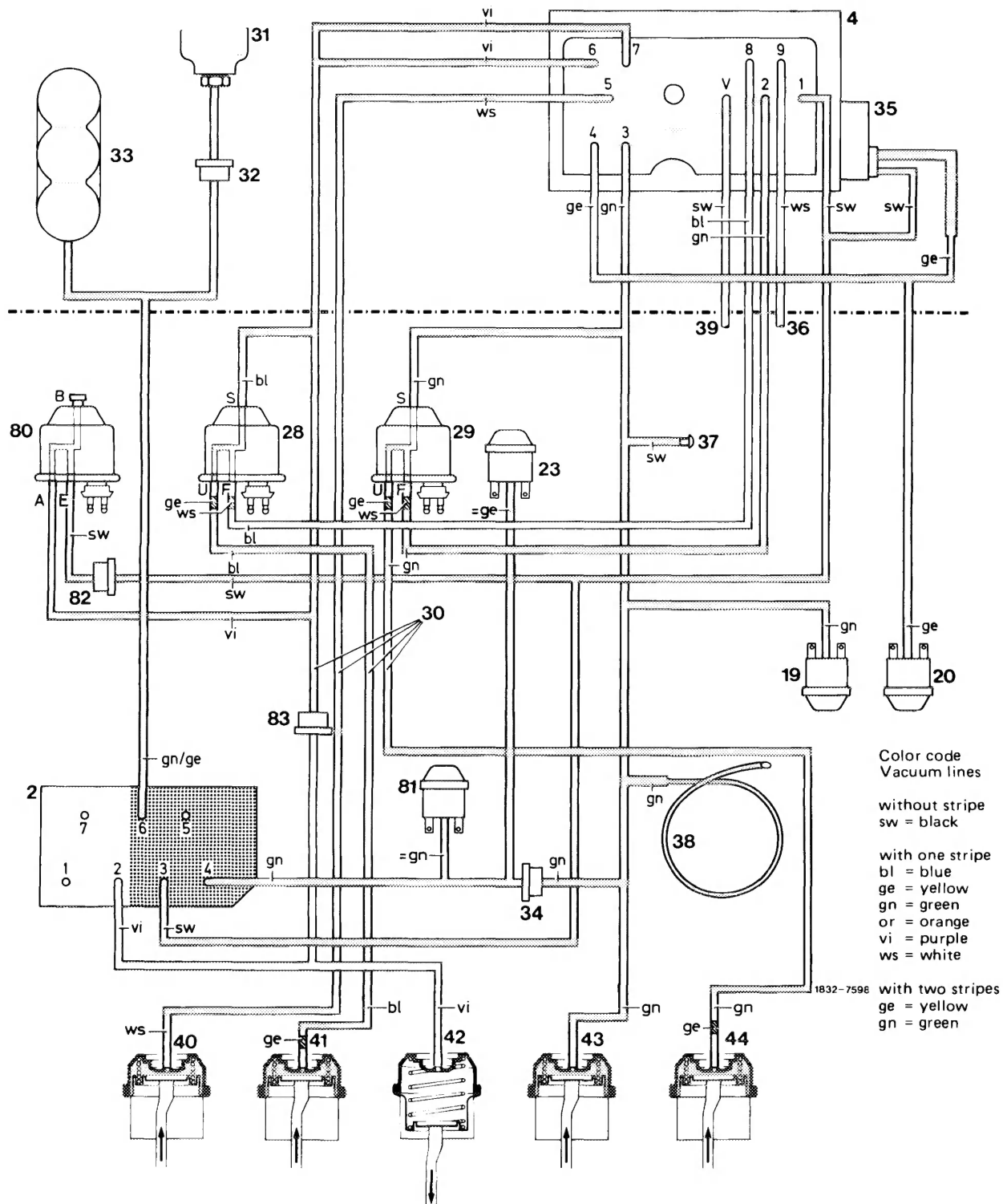


Function diagram 7

Pushbutton switch at "BI-LEVEL", "ON/OFF" switch refrigerant compressor at "OFF", regulating valve in position max. "cooling" (fresh air), coolant temperature  $< 40^{\circ}\text{C}$  ( $< 104^{\circ}\text{F}$ ) (temperature switch [35] without influence)

- |  |  |  |
|--|--|--|
| 2 Pushbutton switch  | 32 Check valve                                     | 42 Vacuum element for defroster jets (flaps "open")                                  |
| 4 Regulating valve   | 33 Vacuum reservoir                                | 43 Vacuum element for main air flap (flap "open")                                    |
| 19 Vacuum switch (main switch, green)                            | 34 Check valve                                     | 44 Vacuum element for fresh air-recirculated air flap (flap in position "fresh air") |
| 20 Vacuum switch (refrigerant compressor, yellow)                | 35 Temperature switch                              | 80 Switchover valve "BI-LEVEL"   |
| 23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only) | 36 Vent line for legroom flaps                     | 81 Vacuum switch (at "BI-LEVEL" only)  |
| 28 Switchover valve (legroom flaps)                              | 37 Vacuum connection for tester                    | 82 Check valve   |
| 29 Switchover valve (fresh air-recirculated air flap)            | 38 Specified leak point                            | 83 Check valve   |
| 30 Vacuum lines  | 39 Vent line for regulating valve                  |  |
| 31 Vacuum connection at intake pipe                              | 40 Vacuum element for center jets (flap "open")    |  |
|  | 41 Vacuum element for legroom flaps (flaps "open") |  |



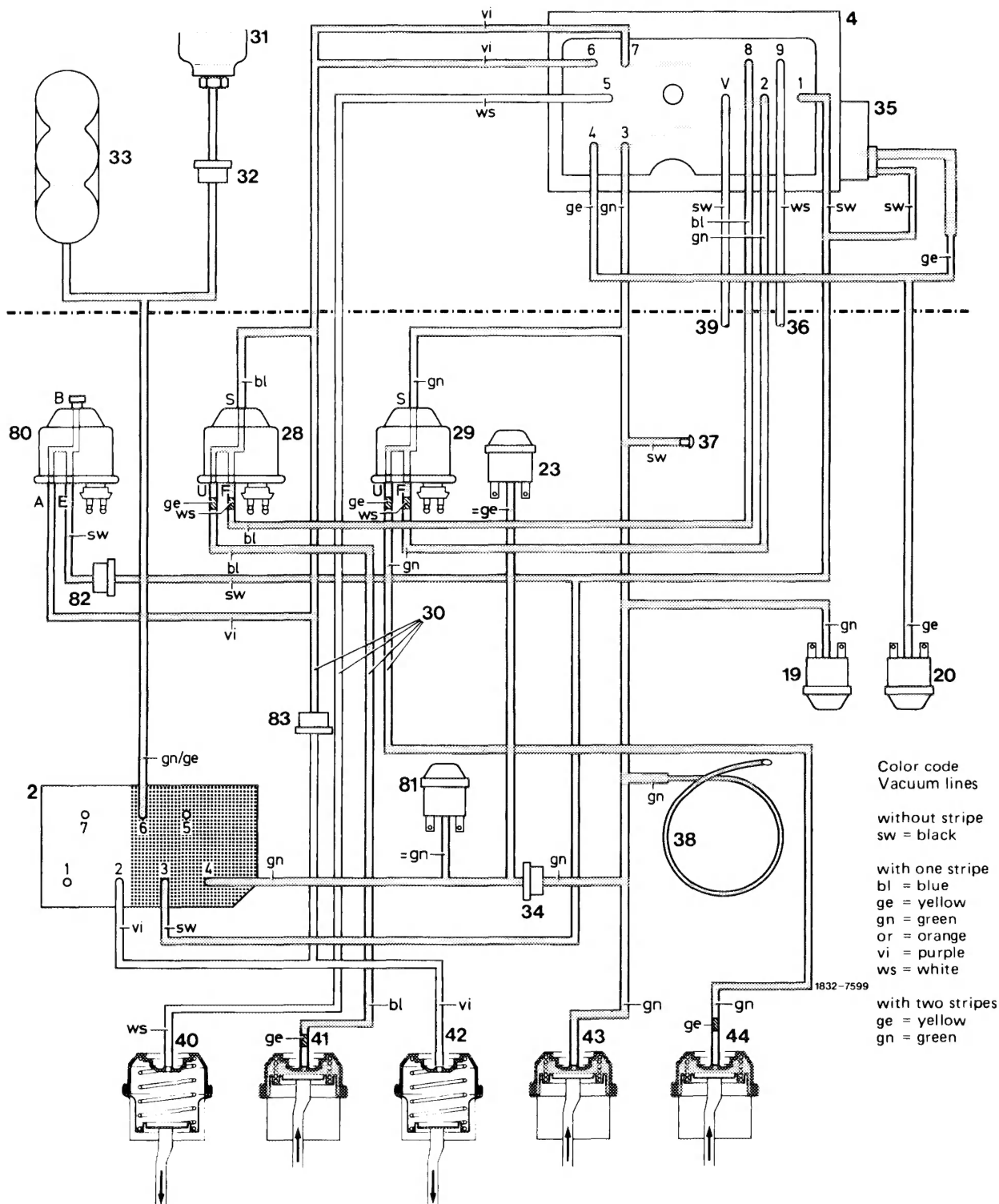


Function diagram 8

Pushbutton switch at "BI-LEVEL", "ON/OFF" switch refrigerant compressor at "ON", regulating valve in position "cooling", coolant temperature  $< 40^{\circ}\text{C}$  ( $< 104^{\circ}\text{F}$ )

(temperature switch [35] without influence)

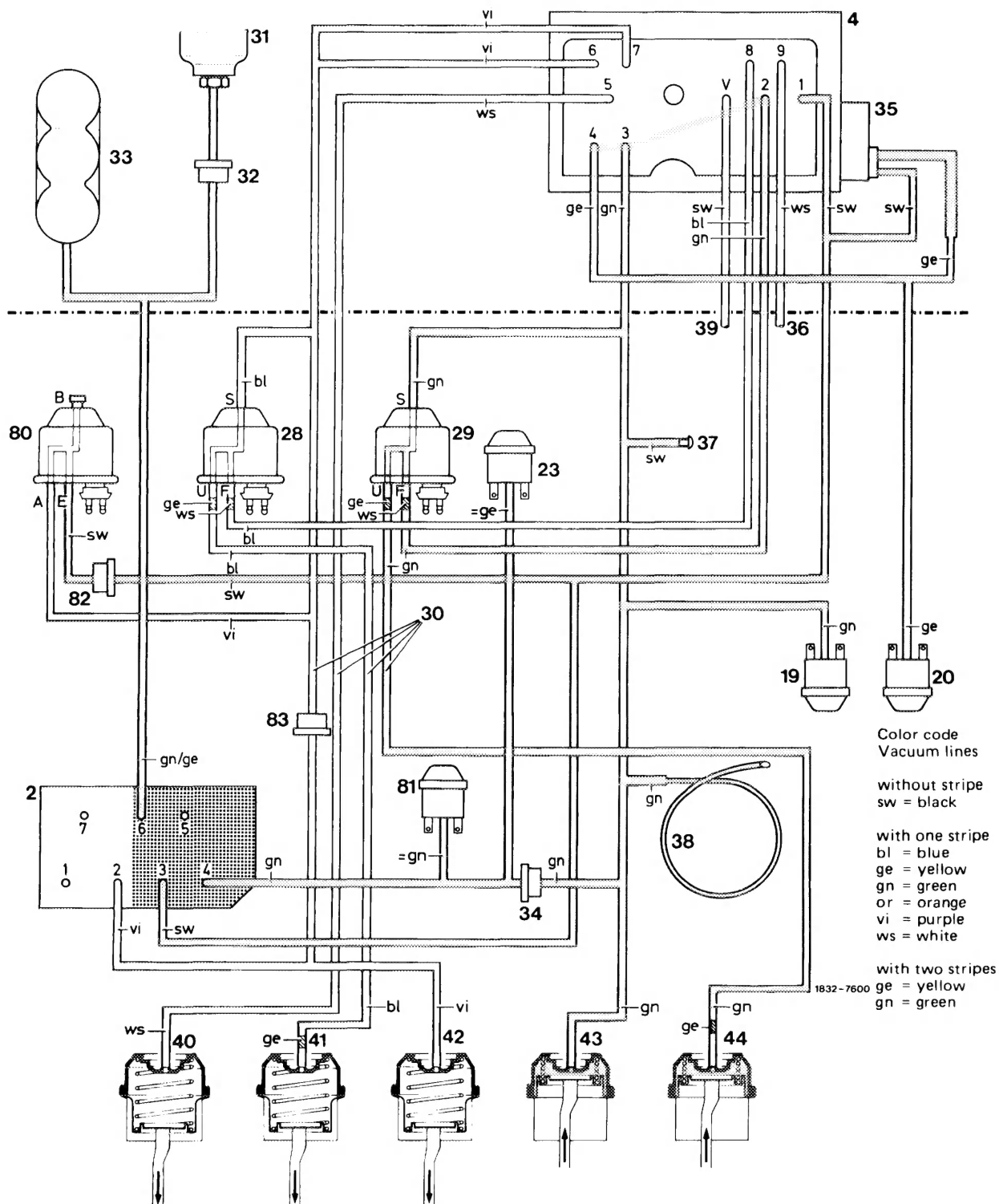
- |  |  |  |
|--|--|--|
| 2 Pushbutton switch  | 32 Check valve                                     | 42 Vacuum element for defroster jets (flaps "open")                                  |
| 4 Regulating valve   | 33 Vacuum reservoir                                | 43 Vacuum element for main air flap (flap "open")                                    |
| 19 Vacuum switch (main switch, green)                            | 34 Check valve                                     | 44 Vacuum element for fresh air-recirculated air flap (flap in position "fresh air") |
| 20 Vacuum switch (refrigerant compressor, yellow)                | 35 Temperature switch                              | 80 Switchover valve "BI-LEVEL"   |
| 23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only) | 36 Vent line for legroom flaps                     | 81 Vacuum switch (at "BI-LEVEL" only)  |
| 28 Switchover valve (legroom flaps)                              | 37 Vacuum connection for tester                    | 82 Check valve   |
| 29 Switchover valve (fresh air-recirculated air flap)            | 38 Specified leak point                            | 83 Check valve   |
| 30 Vacuum lines  | 39 Vent line for regulating valve                  |  |
| 31 Vacuum connection at intake pipe                              | 40 Vacuum element for center jets (flap "open")    |  |
|  | 41 Vacuum element for legroom flaps (flaps "open") |  |



Function diagram 9

Pushbutton switch at "BI-LEVEL", "ON/OFF" switch refrigerant compressor at "ON", regulating valve in position "heating", coolant temperature  $>40^{\circ}\text{C}$  ( $>104^{\circ}\text{F}$ ), (temperature switch [35] without influence)

- |  |  |  |
|--|--|--|
| 2 Pushbutton switch  | 32 Check valve                                     | 42 Vacuum element for defroster jets (flaps "open" with leak air portion)            |
| 4 Regulating valve   | 33 Vacuum reservoir                                | 43 Vacuum element for main air flap (flap "open")                                    |
| 19 Vacuum switch (main switch, green)                            | 34 Check valve                                     | 44 Vacuum element for fresh air-recirculated air flap (flap in position "fresh air") |
| 20 Vacuum switch (refrigerant compressor, yellow)                | 35 Temperature switch                              | 80 Switchover valve "BI-LEVEL"   |
| 23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only) | 36 Vent line for legroom flaps                     | 81 Vacuum switch (at "BI-LEVEL" only)  |
| 28 Switchover valve (legroom flaps)                              | 37 Vacuum connection for tester                    | 82 Check valve   |
| 29 Switchover valve (fresh air-recirculated air flap)            | 38 Specified leak point                            | 83 Check valve   |
| 30 Vacuum lines  | 39 Vent line for regulating valve                  |  |
| 31 Vacuum connection at intake pipe                              | 40 Vacuum element for center jets (flap "closed")  |  |
|  | 41 Vacuum element for legroom flaps (flaps "open") |  |



Function diagram 10

Pushbutton compressor at "DEF", "ON/OFF" switch refrigerant compressor at "ON", regulating valve in position "heating", coolant temperature  $< 40^{\circ}\text{C}$  ( $< 104^{\circ}\text{F}$ ), (temperature switch [35] without influence)

- |  |  |  |
|--|--|--|
| 2 Pushbutton switch  | 32 Check valve                                       | 42 Vacuum element for defroster jets (flaps "open")                                  |
| 4 Regulating valve   | 33 Vacuum reservoir                                  | 43 Vacuum element for main air flap (flap "open")                                    |
| 19 Vacuum switch (main switch, green)                            | 34 Check valve                                       | 44 Vacuum element for fresh air-recirculated air flap (flap in position "fresh air") |
| 20 Vacuum switch (refrigerant compressor, yellow)                | 35 Temperature switch                                | 80 Switchover valve "BI-LEVEL"   |
| 23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only) | 36 Vent line for legroom flaps                       | 81 Vacuum switch (at "BI-LEVEL" only)  |
| 28 Switchover valve (legroom flaps)                              | 37 Vacuum connection for tester                      | 82 Check valve   |
| 29 Switchover valve (fresh air-recirculated air flap)            | 38 Specified leak point                              | 83 Check valve   |
| 30 Vacuum lines  | 40 Vacuum element for center jets (flap "closed")    |  |
| 31 Vacuum connection at intake pipe                              | 41 Vacuum element for legroom flaps (flaps "closed") |  |